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STATEMENT UNDER 37 CFR 3.73(b)**RECEIVED****JUL 20 2001**Applicant/Patent Owner: Agere Systems Guardian Corp.Application No./Patent No.: 09/326,785Filed/Issue Date: June 4, 1998 Technology Center 2100Entitled: Method and Apparatus for Reducing the Computational Complexity and Relaxing the Critical Path of Reduced State Sequence Estimation (RSSE) TechniquesAgere Systems Guardian Corp., a corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of less than the entire right, title and interest.
The extent (by, percentage) of its ownership interest is _____ %

in the patent application/patent identified above by virtue of either:

- A. ☐ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

OR

- B. ☒ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: Inventor(s) To: Lucent Technologies Inc.
The document was recorded in the United States Patent and Trademark Office at Reel 011034, Frame 0317, or for which a copy thereof is attached.
2. From: Lucent Technologies Inc. To: Agere Systems Guardian Corp.
The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.
3. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

☒ Copies of assignments or other documents in the chain of title are attached.

[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

7/17/01

Date

Kevin M. Mason, Reg. No. 36,597

Typed or printed name

Kevin M. Mason

Signature

Attorney for Applicant(s)

Title

ASSIGNMENT AND AGREEMENT

For value received, we, Erich Franz Haratsch, of Bradley Beach in the County of Monmouth and State of New Jersey, and Harish Viswanathan, of Matawan in the County of Monmouth and State of New Jersey, hereby sell, assign and transfer to Lucent Technologies Inc., a corporation of the State of Delaware, having an office at 600 Mountain Avenue, Murray Hill, New Jersey 07974-0636, U.S.A., and its successors, assigns and legal representatives, the entire right, title and interest, for the United States of America, in and to certain inventions related to a **METHOD AND APPARATUS FOR REDUCING THE COMPUTATIONAL COMPLEXITY AND RELAXING THE CRITICAL PATH OF REDUCED STATE SEQUENCE ESTIMATION (RSSE) TECHNIQUES**, described in an application for Letters Patent of the United States filed on June 4, 1999 and assigned Serial No. 09/326,785, and all the rights and privileges in said application and under any and all Letters Patent that may be granted in the United States for said inventions; and we also concurrently hereby sell, assign and transfer to Lucent Technologies Inc. the entire right, title and interest in and to said inventions for all countries foreign to the United States, including all rights of priority arising from the application aforesaid, and all the rights and privileges under any and all forms of protection, including Letters Patent, that may be granted in said countries foreign to the United States for said inventions.

We authorize Lucent Technologies Inc. to make application for such protection in its own name and maintain such protection in any and all countries foreign to the United States, and to invoke and claim for any application for patent or other form of protection for said inventions, without further authorization from us, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

We hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of Lucent Technologies Inc. to apply for patent or other form of protection for said inventions and to claim the aforesaid benefit of the right of priority.

We request that any and all patents for said inventions be issued to Lucent Technologies Inc. in the United States and in all countries foreign to the United States, or to such nominees as Lucent Technologies Inc. they may designate.

We agree that, when requested, we shall, without charge to Lucent Technologies Inc. but at its expense, sign all papers, and do all acts which may be necessary, desirable or convenient in connection with said applications, patents, or other forms of protection.


Erich Franz Haratsch

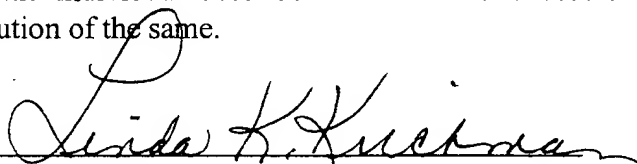
Date: July 29, 1999

United States of America)

State of New Jersey) ss.:

County of Monmouth)

On this 29th day of July, 1999, before me personally came Erich Franz Haratsch, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.


Notary Public

LINDA K. KRICHMAN
Notary Public of New Jersey, USA
Registered in Monmouth County
My Commission Expires 10/28/99



Harish Viswanathan

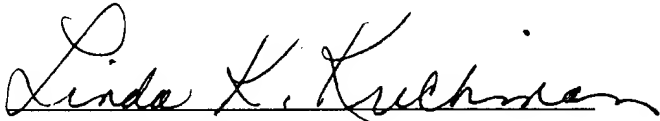
Date: July 27, 1999

United States of America)

State of New Jersey) ss.:

County of Monmouth)

On this 27th day of July, 1999, before me personally came Harish Viswanathan, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.



Notary Public

LINDA K. KRICHMAN
Notary Public of New Jersey, USA
Registered in Monmouth County
My Commission Expires 10/28/99

Ryan & Mason, L.L.P.
90 Forest Avenue
Locust Valley, NY 11560

EXECUTION COPY

PATENT ASSIGNMENT

by and between

LUCENT TECHNOLOGIES INC.

and

AGERE SYSTEMS GUARDIAN CORP.

Dated as of January 30, 2001

PATENT ASSIGNMENT

THIS PATENT ASSIGNMENT (this "Assignment"), effective as of January 30, 2001 (the "Effective Date"), is by and between Lucent Technologies Inc., a Delaware corporation, with offices at 600 Mountain Avenue, Murray Hill, New Jersey 07974, United States of America, ("ASSIGNOR") and Agere Systems Guardian Corp., a Delaware corporation, with offices at 555 Union Boulevard, Allentown, PA 18109, United States of America ("Agere Systems Guardian").

RECITALS

A. WHEREAS, the Board of Directors of ASSIGNOR has determined that it is in the best interests of ASSIGNOR and its stockholders to separate ASSIGNOR's existing businesses into two independent businesses;

B. WHEREAS, ASSIGNOR presently owns or controls certain patents, patent applications, and invention submissions listed in the attached Appendices A and B (hereinafter "TRANSFERRED PATENTS") and;

C. WHEREAS, in furtherance of the foregoing separation, ASSIGNOR desires to transfer, assign, convey, deliver and vest all of its interests and rights in TRANSFERRED PATENTS for all countries, jurisdictions and political entities of the world, to and in Agere Systems Guardian;

NOW, THEREFORE, in consideration of the premises and for other good and valid consideration, the receipt and sufficiency of which are hereby acknowledged, the parties, intending to be legally bound, agree as follows:

ASSIGNOR, subject to existing rights and licenses of third parties, does hereby assign, convey, transfer and deliver, and agrees to assign, convey, transfer and deliver to Agere Systems Guardian, its successors, assigns and legal representatives or nominees, ASSIGNOR's entire right, title and interest, for all countries, jurisdictions and political entities of the world, along with the right to sue for past infringement, to all TRANSFERRED PATENTS listed on Appendices A and B, and corresponding counterpart foreign patents and patent applications, with respect to which, and to the extent to which, ASSIGNOR now has or hereafter acquires the right to so assign, convey, transfer and deliver. Agere Systems Guardian recognizes that ASSIGNOR holds only bare legal title to the TRANSFERRED PATENTS listed in Appendix A (which lists the United States Patents and patent applications previously exclusively licensed to Lucent Technologies Microelectronics Guardian Corp.).

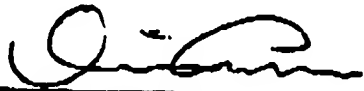
ASSIGNOR and ASSIGNEE recognize that the patents listed in Appendices A and B may inadvertently include patents that are owned by various subsidiaries of ASSIGNOR, including Agere, Inc., Ortel Corporation, Optimay Corporation, Herrmann Technology, Inc., and Enable Semiconductor, Inc. Ownership of such patents shall not be affected by this Patent

Assignment, and ASSIGNEE agrees that any such patents shall be deemed deleted from Appendices A and B.

ASSIGNOR agrees that, upon request it will, at any time without charge to Agere Systems Guardian, but at Agere Systems Guardian's expense, furnish all necessary documentation relating to or supporting chain of title, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for vesting title to TRANSFERRED PATENTS in Agere Systems Guardian, its successors, assigns and legal representatives or nominees; including but not limited to any acts which may be necessary, desirable or convenient for claiming said rights and for securing and maintaining patents for said inventions in any and all countries and for vesting title thereto in Agere Systems Guardian and its respective successors, assigns and legal representatives or nominees.

IN WITNESS WHEREOF, the parties have caused this PATENT ASSIGNMENT to be executed by their duly authorized representatives as of the Effective Date.

LUCENT TECHNOLOGIES INC.

By: 
Daniel P. McCurdy
President, Intellectual Property Business

AGERE SYSTEMS GUARDIAN CORP.

By: 
Fred M. Romano
President

ACKNOWLEDGMENTS

STATE OF NEW JERSEY)

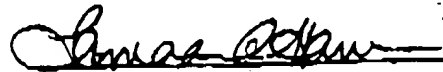
: ss:

COUNTY OF SOMERSET)

I CERTIFY that on January 30, 2001, Daniel P. McCurdy personally came before me and this person acknowledged under oath, to my satisfaction that:

a.) this person signed, sealed and delivered the attached Patent Assignment as President - Intellectual Property Business of Lucent Technologies Inc.; and

b.) this Patent Assignment was signed and made by Lucent Technologies Inc. as its voluntary act and deed by virtue of authority from its Board of Directors.



Name

TAMORA ANNE HANNA

Notary Public

Notary Public of New Jersey

My Commission Expires Registered in Hunterdon County

[Notarial Seal]

My Commission Expires March 25, 2003

STATE OF FLORIDA)

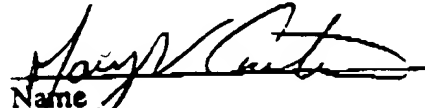
: ss:

COUNTY OF ORANGE)

I CERTIFY that on January 31, 2001, Fred M. Romano personally came before me and this person acknowledged under oath, to my satisfaction that:

a.) this person signed, sealed and delivered the attached Patent Assignment as Vice President of Agere Systems Guardian Corp.; and

b.) this Patent Assignment was signed and made by Agere Systems Guardian Corp. as its voluntary act and deed by virtue of authority from its Board of Directors.



Name

Notary Public

My Commission Expires:

[Notarial Seal]



APPENDIX B (continued)
Transferred Patents

Case Name	Filing Date	Issue Date	Patent No.	Serial No.
Hamm 12-14-9-7-5	11/4/1999			09/433204
Hamm 3-7-2	4/13/1998		09/059359	
Hamparian 2	4/13/1998	7/18/2000	6091279	
Han 1	11/7/1997		08/965706	
Han 2	10/27/1999			09/428073
Hanumaihgar 1-1-1-1-9-8-1-1-1-2	5/10/1999			60/133396
Hao 1-1	12/5/1997		08/985975	
Haratsch 1-4	6/4/1999			09/326785
Hardin 8-24	3/29/1999			09/280169
Harman 5	10/30/1998			09/182885
Harman 6	8/11/1999			09/372332
Harpham 1-1	3/26/1999			09/277488
Harriott 11-22	8/27/1999			09/384395
Harris 1	7/10/1997		08/891438	
Harris 2-2-1	10/29/1999			09/430635
Harris 2-47-1	9/29/1999			09/408299
Harris 3	9/23/1999			09/404702
Harris 3	12/28/1999			09/473876
Harris 4-1	10/28/1999			09/428689
Harris 5-21-18-5	12/17/1999			09/466715
Harris 8-138-7	8/31/2000		09/652479	
Hartley 2	11/23/1999			09/448611
Hartmann 3-3	11/7/1996	3/14/2000	6038300	
Hartmann 6-5	8/13/1999			09/374400
Havens 10	6/21/1999			09/337489
Havens 11-6-1	1/28/2000			09/493287
Havens 6	8/24/1998		09/138702	
Havens 7	8/24/1998		09/138701	
Havens 9-4	6/23/1999			09/339326
Haynes 15-17	4/10/1998		09/058505	
Heckner 1-2-3	6/12/1998		09/096900	
Hendricks 10-36-17-16	9/23/1999			09/401995
Hendricks 11	10/27/1999			09/428086
Hendricks 3	4/7/1998		09/056722	
Hendricks 6-8	4/26/1999			09/299089
Hendricks 7-30-11	7/30/1999			09/363005
Hendricks 8-31-12-15	8/24/1999			09/379603
Hendricks 9-32-13	9/23/1999			09/401994
Henry 1	10/9/1998			09/169794
Henry 5-3	1/19/2000			09/487117
Henzen 1-1	10/15/1999			09/418457
Hergenrother 2-5	6/18/1999			09/335646
Hergenrother 3-6-10	6/18/1999			09/335707
Hergenrother 4-1-7	5/11/2000			09/569186
Herman 1	8/10/2000		60/224134	
Hernandez 1-1-1	10/29/1999			09/430147
Herrera 1-3	9/29/1999			09/407533
Herrera 2-4	9/29/1999			09/407535
Herrera Alzu 1-3-12	12/13/1999			09/460159
Higashi 10-1-2-2	2/22/1999			09/253715
Higashi 11	7/30/1999			09/364367
Higashi 12	7/30/1999			09/364208
Higashi 13	11/15/1999			60/165542
Higgins 10-12-18	10/13/1998			09/170351
Higgins 11-13-4-2-19	10/13/1998			09/170353
Higgins 16-8	11/4/1999			09/433759
Hillenius 19-25	8/7/1997		08/907406	
Hinzmann 1-1-10-2	6/28/1995	7/15/1997	D381024	
Hobbi 2	1/19/1999			09/233580